

glass field

automatic screen printing machine

UNIGLASS MC2



Description

The screen printing machine model **UNIGLASS MC2** has been designed and built to print medium and large size glass sheets. It is especially studied to do the **full-prints used in the construction industry**.

The machine, thanks to its innovative automations and technologies, has shown an **excellent printing precision and speed** in spite of its large printing size.

Composition of the machine

1. **Loading unit** equipped with belts and tilting rack
2. **Screen printing unit**
3. **Unloading unit** equipped with belts and tilting rack

Working possibilities

- **Independent unit:** the glass sheet is loaded by the tilting rack of the loading unit, then pre-registered and moved under the printing head; after being registered, the sheet is screen printed and moved towards the unloading unit; now it can be unloaded by the tilting rack or moved towards the dryer (not included).
- **In-line unit:** the glass comes from a line before the machine, then it is pre-registered by the loading unit and moved under the printing head; after being registered, the glass is screen printed and moved towards the unloading unit; now it can be moved towards a line after the unloading unit.

Innovative printing table (patented) New

The printing table has been realised in order to avoid scratching the glass sheets during their setting.

In fact, the printing table is equipped with a combined system including a powerful **air-cushion** and **transmission belts** able to move the glass in the printing position.

Now a **robotic arm**, installed into the printing table, does the final adjustment of the sheet (the system is controlled by optical sensors).

Then the air-cushion stops and the transmission belts lower themselves in order the glass can be set carefully on the printing table.

Now, a powerful **vacuum system** goes into action and fixes strongly the glass sheet over the printing table. The vacuum system holds the sheet until the end of the printing cycle.

Automatic system for ink's salvage New

Usually, when the ink comes out from the frame's inkpot, it is necessary to insert it again in the inkpot by using a spatula to avoid wasting a big quantity of ink.

The automatic system for ink's salvage has been designed and built to solve this problem.

In fact, you have only to set up on the control panel's counter the number of the printing cycles and, when the system reaches this value, it automatically goes into action and salvages the ink gone out from the frame's inkpot.

Frame holder's automatic taking-out system New

It is difficult and dangerous to clean wide size frames under the machine's printing head.

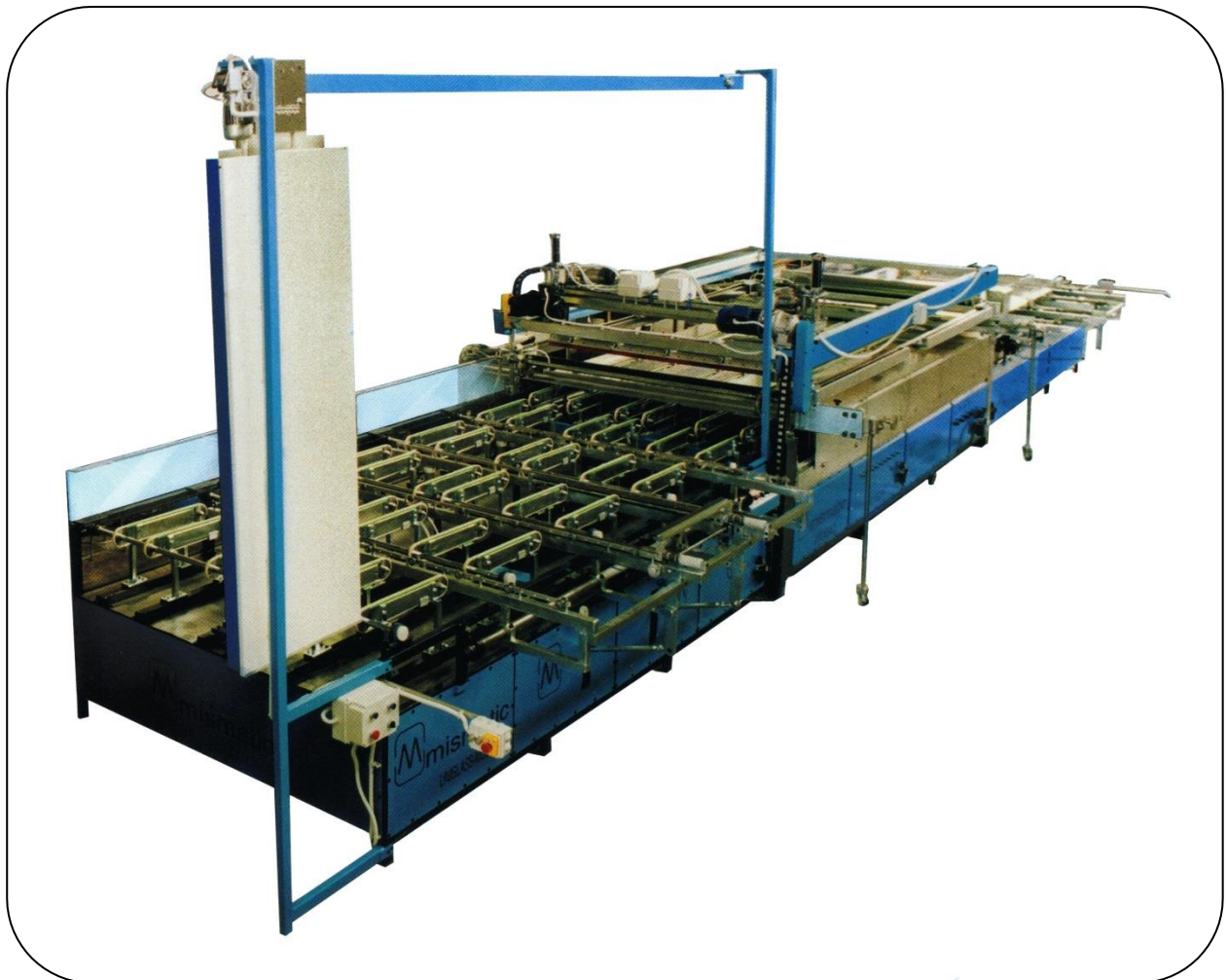
The frame holder's taking-out system helps you. In fact, the user can automatically take-out the frame holder from the machine and clean the frame simply and easily. After the cleaning, the frame can be inserted into the machine without losing the original adjustment.

AIRCOLOR ink's pump (patented) New

The pump allows drawing directly the ink from the tin and depositing it into the frame without any user's intervention. It can work both in the step-less and step-by-step mode (by a timer). After the printing process, in order to clean the pump, the user has only to immerse it into a solvent (or water) tin and pumping it for a few minutes; the pump cleans itself.

The kit is composed by:

1. **AIRCOLOR** pump
2. System for the ink's distribution into the frame
3. Independent control panel



Technical data	100 x 200	200 x 400	300 x 600
<i>Printable materials:</i>	glass sheets		
<i>Max printing size¹:</i>	1000 x 2000 mm	2000 x 4000 mm	3000 x 6000 mm
<i>Material thickness range:</i>	2÷20 mm		
<i>Max cycles per hour²:</i>	150	80	60
<i>Electrical supply³:</i>	380÷400 V 3-phase + neutral, 50÷60 Hz		
<i>Working pressure⁴:</i>	6÷7 bar		
<i>Overall dimensions of the loading unit:</i>	(L) 2000 mm x (W) 1850 mm x (H) 1350 mm	(L) 4000 mm x (W) 2850 mm x (H) 1350 mm	(L) 6000 mm x (W) 3850 mm x (H) 1350 mm
<i>Overall dimensions of the screen printing unit:</i>	(L) 3000 mm x (W) 2500 mm x (H) 2300 mm	(L) 5000 mm x (W) 3500 mm x (H) 2300 mm	(L) 7000 mm x (W) 4500 mm x (H) 2300 mm
<i>Overall dimensions of the unloading unit:</i>	(L) 2000 mm x (W) 1850 mm x (H) 1350 mm	(L) 4000 mm x (W) 2850 mm x (H) 1350 mm	(L) 6000 mm x (W) 3850 mm x (H) 1350 mm
<i>Printing table height:</i>	1100 mm		
<i>Usable frames:</i>	metallic frames		
<i>Frames thickness range:</i>	up to 50 mm		
<i>Usable inks:</i>	traditional, ceramic and UV screen printing inks		

[1] Any other printing size available on request.

[2] Given values without considering the material's loading/unloading time.

[3] Any other three-phase electrical supply available on request.

[4] The compressor is not included.

In order to improve the quality of the product, the Mismatic Company is allowed to effect modifications in the manufacturing without any obligation to notify the same to the Customer.

Standard features of the loading/unloading units

- ❖ Possibility to load/unload the glass both in vertical and horizontal position
- ❖ Glass' automatic pre-register system
- ❖ Belts speed: adjustable by control panel
- ❖ On board control panel

Standard features of the screen printing machine

- ❖ Glass' setting and register on the printing table: automatic; before being screen printed, the glass is blocked on three sides by two squares (front and back side) and one lateral stop
- ❖ Frame holder's vertical movement system **New**
- ❖ [] frame holder: possibility to adapt different sized frames
- ❖ Frame's block/unblock: automatic
- ❖ Frame holder's automatic taking-out system **New**
- ❖ Squeegee and scraper's independent speeds
- ❖ Squeegee and scraper's speeds: adjustable by control panel
- ❖ Squeegee and scraper's pressures: adjustable by control panel; you have only to key in the value of the pressure without touching any knob **New**
- ❖ Squeegee and scraper's slopes: adjustable
- ❖ Automatic system to block/unblock the squeegee and the scraper **New**
- ❖ Screen printing length: adjustable by micro-switches
- ❖ Automatic system for ink's salvage **New**
- ❖ Off-contact distance: automatic Synchroprint adjustable from 0 mm to 60 mm
- ❖ Innovative printing table (patented): it has been realised in order to avoid scratching the glass sheets during their setting **New**
- ❖ Rectified aluminium printing table: it is especially studied to do the full-prints used in the construction industry
- ❖ Printing table thickness: 30 mm
- ❖ Air-cushion printing table
- ❖ Vacuum printing table
- ❖ Printing table with transmission belts
- ❖ Frame holder's micrometric adjustment: by X-Y axes
- ❖ Remote control panel
- ❖ Three working cycles: manual, single and automatic with timer

Optional features of the screen printing machine

- ❖ [] frame holder: adjustable by control panel
- ❖ Automatic system to take-out the squeegee and the scraper **New**
- ❖ Screen printing length: adjustable by control panel; you have only to key in the value of the length without adjusting any micro-switch or photocell **New**
- ❖ Frame holder's micrometric adjustment: X-Y axes adjustable by control panel; you have only to key in the value of the X or Y axes without touching any knob **New**
- ❖ AIRCOLOR ink's pump (patented) **New**
- ❖ Squares: for every glass thickness is necessary a set of squares

The machine will be equipped with

- #1 squeegee
- #1 scraper
- #1 set of squares

The machine can be equipped with

- the infrared and hot air dryer model **COMBI**
- the one lamp UV dryer model **MINI**



☺ IR and hot air dryer
model **COMBI**

UV dryer model **MINI** ☺

